

L3 ANSWER 140 OF 161 CA COPYRIGHT 2005 ACS on STN

AN 98:94545 CA

ED Entered STN: 12 May 1984

TI Ceramic filters

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CODEN: JKXXAF

DT Patent

LA Japanese

IC B28B001-38; B01J035-04; B01J037-02

ICA B01D046-00; B01D053-36

CC 57-2 (Ceramics)

Section cross-reference(s): 59

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 57176109	A2	19821029	JP 1981-61697	19810423
PRAI	JP 1981-61697			19810423	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES		
JP 57176109	IC	B28B001-38IC	B01J035-04IC	B01J037-02
	ICA	B01D046-00; B01D053-36		

AB Organic structural materials having many continuous holes are impregnated with a slurry containing ceramic powder, water, an organic binder, and a deflocculant for viscosity adjustment, dried, and fired to give ceramic filters especially useful for exhaust gas purification. Thus, a cylinder having many continuous holes and made from a polyurethane foam was impregnated with a slurry containing cordierite 1500, poly(vinyl alc.) 100, water 2500, and Na silicate 4 parts, dried, and fired to give a filter. When air was passed through the filter at 800 L/min, the pressure loss was 40-50 mm Hg, compared to 80-90 with a slurry containing no Na silicate.

ST cordierite ceramic filter; polyurethane foam ceramic filter prep; sodium silicate cordierite filter

IT Filtering materials

(cordierite ceramic, containing Na silicate for low pressure loss, for exhaust gas purification)

IT Ceramic materials and wares

(cordierite, containing Na silicate, for filters with low pressure loss, for exhaust gas purification)

IT Exhaust gases

(filters for, from cordierite ceramics containing Na silicate for low pressure loss)

IT Urethane polymers, uses and miscellaneous

RL: SPN (Synthetic preparation); PREP (Preparation)

(foams, in cordierite ceramic filter preparation with sodium silicate, for exhaust gas purification)